

Notice of Allowability

Application No.	Applicant(s)	
10/664,400	WARRIOR ET AL.	
Examiner	Art Unit	
Toan N. Pham	2612	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. This communication is responsive to amendment filed on March 12, 2007.

2. The allowed claim(s) is/are 1-3 and 5-48.

3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).

a) All b) Some* c) None of the:

1. Certified copies of the priority documents have been received.

2. Certified copies of the priority documents have been received in Application No. _____.

3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.

5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.

(a) including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
1) hereto or 2) to Paper No./Mail Date _____.

(b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of
Paper No./Mail Date _____.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. <input type="checkbox"/> Notice of References Cited (PTO-892)	5. <input type="checkbox"/> Notice of Informal Patent Application
2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)	6. <input type="checkbox"/> Interview Summary (PTO-413), Paper No./Mail Date _____.
3. <input type="checkbox"/> Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date _____	7. <input type="checkbox"/> Examiner's Amendment/Comment
4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. <input checked="" type="checkbox"/> Examiner's Statement of Reasons for Allowance
	9. <input type="checkbox"/> Other _____.

Allowable Subject Matter

Claims 1-3 and 5-48 are allowed.

The following is an examiner's statement of reasons for allowance: The present invention is directed to a mobile data collector having mobility that is unpredictable to a wireless sensor network. Each independent claim identifies the uniquely distinct features:

Regarding independent claim 1: "wherein said mobility that is unpredictable to said wireless sensor network comprises a travel schedule of said at least one mobile data collector that is unpredictable to said wireless sensor network".

Regarding independent claim 3: "mobility of said plurality of mobile data collectors resulting in a pattern of accesses of said at least one sensor in said wireless sensor network by ones of said plurality of mobile data collector that is unpredictable to said wireless sensor network".

Regarding independent claim 5: "wherein said mobility that is unpredictable to said wireless sensor network comprises a travel route of said at least one mobile data collector that is unpredictable to said wireless sensor network".

Regarding independent claim 6: "at least one mobile data collector determining if it is range for wireless communication with said at least one sensor; and if determined that said at least one mobile data collector is in range for wireless communication with said at least one sensor, said at least one mobile data collector communicating a wake-up signal to said at least one sensor to cause it to increase its power to level suitable for communication".

Regarding independent claim 13: "using at least one mobile data collector, having mobility that is unpredictable to a wireless sensor network, for performing at least one of data collection from and data communication to at least one sensor in said wireless sensor network; and during a transient communication with said at least one mobile data collector, said at least one sensor communicating data with at least one of (a) timestamp information and (b) spatial location information".

Regarding independent claim 17: "deploying a plurality of mobile collectors that are each operable to communicatively access a node of a wireless sensor network and that are each independently movable; and employing an application that desires communication access with at least one node of the wireless sensor network, wherein said application relies on statistical probability that at least one of the plurality of mobile collectors will travel in communication range of the at least one node of the wireless sensor network for performing the desired communication".

The prior art cited herein fail to anticipate or render the above limitations obvious. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Toan N. Pham whose telephone number is (571) 272-2967. The examiner can normally be reached on M-F.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Daniel J. Wu can be reached on (571) 272-2964. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Toan N Pham
Primary Examiner
Art Unit 2612

April 12, 2007.

